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5. *Usnea arthrocladon* Feé.

"Brasilia." (Suppl. Essai sur les crypt. 148. Pl. 3. f. 4. 1836.)

"Thallo cylindraceo, prostrato, laevi, subvernicioso helvolo, articulo, articulis discretis, ramis divaricatis, bifurcationibus subarcuatis, nudis, junioribus fibrillosis, apice acutis.

"Apotheciis (orbillis) concoloribus, amplis, orbicularibus, radiatis; radiis longissimis, articulatis, laxis." l. c.

= *U. intercalaris* Wain. (non Kremphl.) (Beitr. Kennt. Lich.—Fl. Suds.—Inseln, Jour. Mus. Godeffroy 4: 96. 1873.)

= *U. laevigata* Pers. (Gaudich. Voy. Uran. 209. 1826.)

= *U. articulata* var. *dimorpha* Müll. Arg. (Flora 74: 372. 1891.)

6. *Parmelia Coralloides, aspera* Eschw.

"Minas Adamantium Brasiliae"—"Brasilia meridionali." (Martius Flora Brazil. 1: pt. 1, 227. 1833.)

"Thallo caespitoso erectiusculo aspero-tuberculoso ramuloso passim fibrilloso, ochroleuco et cinerascens, scutellis subterminalibus appendiculatis, disco carneo albescente, margine radiatim ciliato." l. c.

= *U. barbata* var. *aspera* (non Eschw.?) Müll. Arg. (Jahrb. Kgl. bot. Gart. und Museum 2: 309. 1883. Flora 71: 20. 1888.)

= *U. aspera* (Eschw.) Wain. (Etude Class. Nat. Morph. Lich. Bresil 7. 1890.)

= *U. laevis* var. *aspera* (Eschw.) Müll. Arg. (Hedw. 30: 225. 1891.)

= *U. jamaicensis* Kremphl. non Ach. (Lich. Univ. 619. 1810.) fide Wain.

7. *Usnea arthroclada* var. *aspera* Müll. Arg.

"Theresopolis" "Serra do Picu," Brazil. (Hedw. 30: 225. 1891.)

"rami vulgo esorediosi et minus longe et minus acute acuminati, verruculoso-aspera et subnodulosi, spinulis et glaucedine destituti." l. c.

Type in the Boissier Herbarium, Chambésy.

8. *Usnea bogotensis* Wain.

"prope Bogota." "Ad saxa 8000 s. m." (Hedw. 38: 121. 1899.)

"Forsan est subspecies *U. jamaicensis* Ach., thallo apicem versus bene soredioso ab ea differens. Thallus erectus, long circ. 90 mm. basin versus rigidus, ramis primariis circ. 1, 5–1 mm crassis, crebre minuteque verruculosus, glaucescenti-stramineus, ramis omnibus teretibus, ramis adventitiis raro evolutis. Stratum mycelhyphicum crebrum, jodo non reagens, KHO lutescens, dein sub-rubescens." l. c.

No. 40: J. Weir, in the Kew Herbarium, London.

[To be Continued]

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## SHORTER NOTES

I was much interested in reading of the two recent finds of *Leptobryum pyriforme* (L.) Wilson with gemmae. I collected this plant about eight years ago in an open field in Amesbury, Mass. As I sent some of the material to Dr. Best for investigation, he probably can vouch for my find. The moss was growing on a heap of muck carted from a bog to a wet field. The plants were growing separately, not in clumps, and were very delicate and pretty.

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